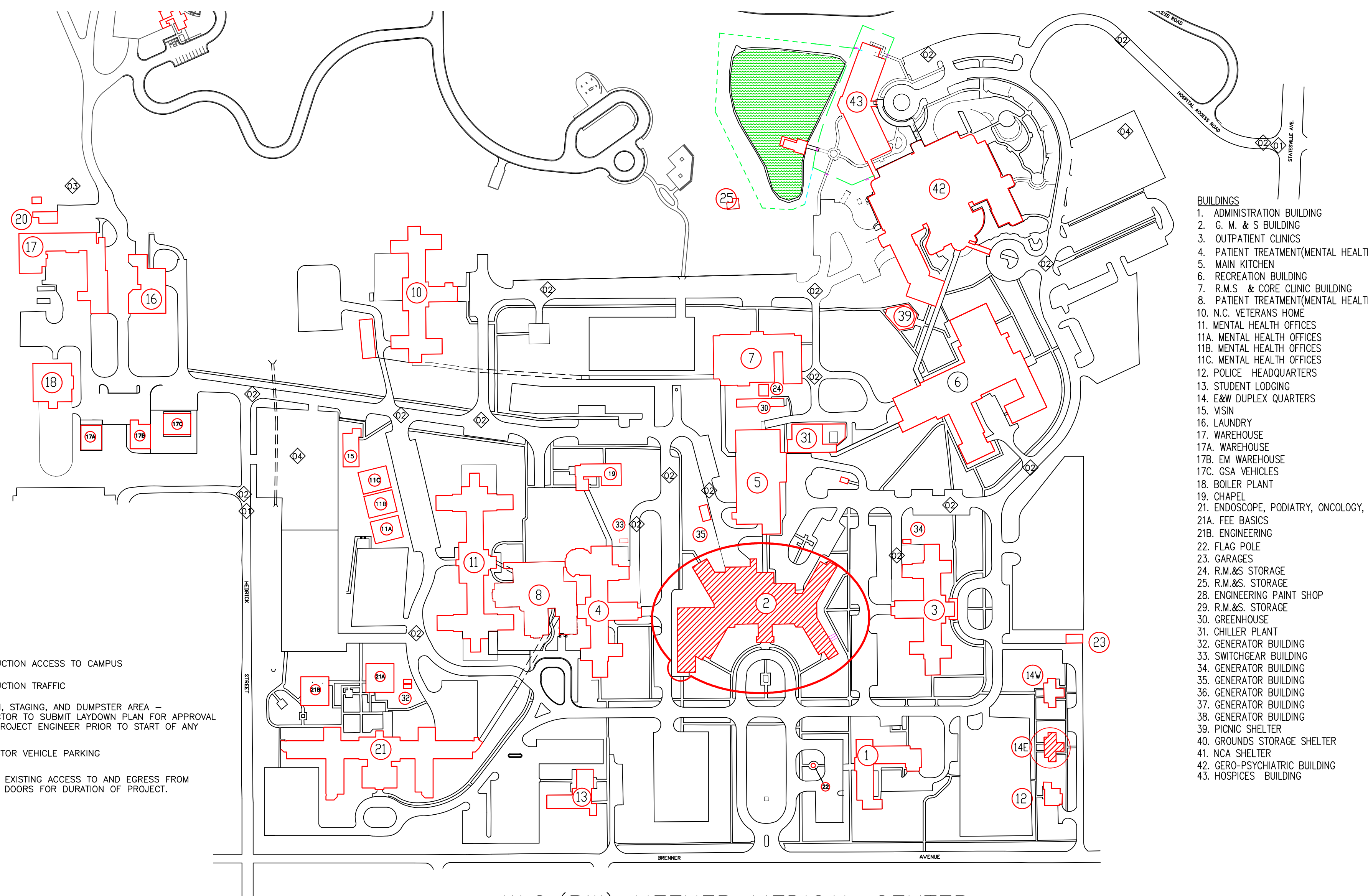
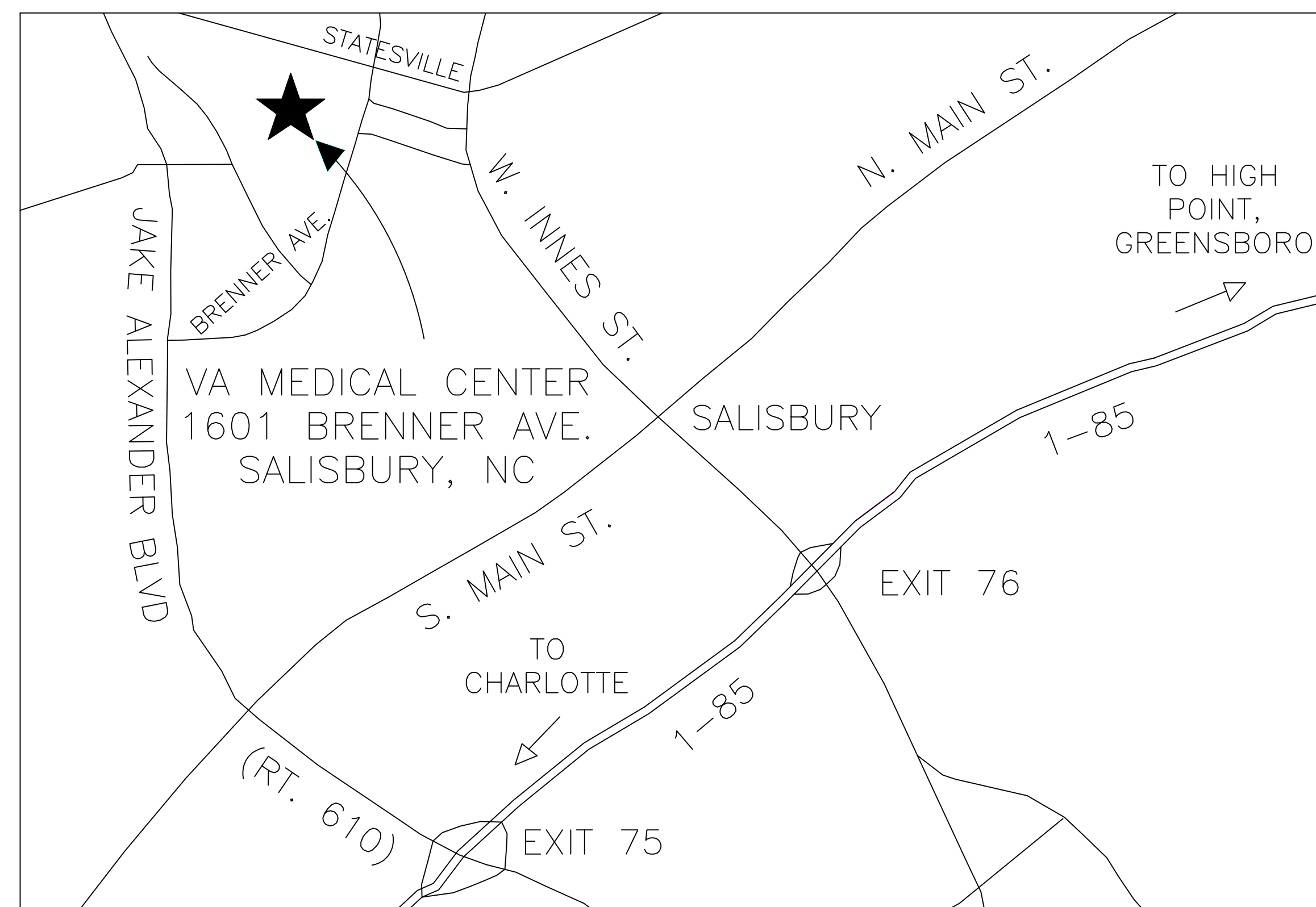


DEPARTMENT OF VETERANS AFFAIRS
LEGIONELLA MANAGEMENT PROGRAM
Buildings 2 and 14E



W.G.(Bill) HEFNER MEDICAL CENTER
SALISBURY, NORTH CAROLINA



NOTE

THIS DRAWING IS NOT TO SCALE AND IN FOR REFERENCE ONLY THE CONTRACTOR WILL HAVE TO PHYSICALLY TRACE THE SYSTEM TO LOCATE VALVES AND JUNCTION POINTS. THE CONTRACTOR SHOULD SECURE THE FLOW OF WATER TO THE WINGS AND EVALUATE THE SUPPLIED PORTION OF THE BUILDING TO INSURE THAT OTHER UNINTENDED FIXTURES MAY BE CONNECTED AND IDENTIFIED BEFORE CUTTING OUT THE SUPPLY LINE. THIS DRAWING MAY NOT SHOW ALL THE PIPING AND BRANCHES OF THE SYSTEM THAT WILL NEED TO BE REMOVED THE CONTRACTOR SHALL BE PREPARED TO REMOVE THIS PIPING AS PART OF THIS CONTRACT.

Statement of work

Contractor shall completely prepare site for building operations, including demolition and removal of existing structures, and furnish labor and materials and perform work to replace all valves in the hot water loop and domestic water in the crawl space and Ground floor of building 2. The contractor shall verify the hot water loop in building 2 and correct as needed. The contractor shall locate all mixing valves in building 2 and remove them and complete the loops at the top of each active riser. The contractor shall remove dead legs in the hot water loops in Building 2 and The contractor shall remove the drinking water loop system from building 2. The contractor shall remove drinking water fountains that are on the drinking water loop and return to the VA.

The contractor shall inspect the existing Hot water loops and provide report of the condition and what was done to complete the loops as required by drawings and specifications at the VA Medical Center in Salisbury NC as required by drawings and specifications.

Work hours shall be flexible. Due to the nature of this work and the disruptions caused by it most of the work will have to take place after normal Hospital operating hours (0700-1800). Working Hours will be from 1830-0630 weekdays and any hours necessary on weekends after approval.


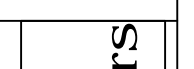
The contractor shall replace faucets and install mixing thermostatic valves at every sink in building 2 that has hot water supplied to it per drawing.

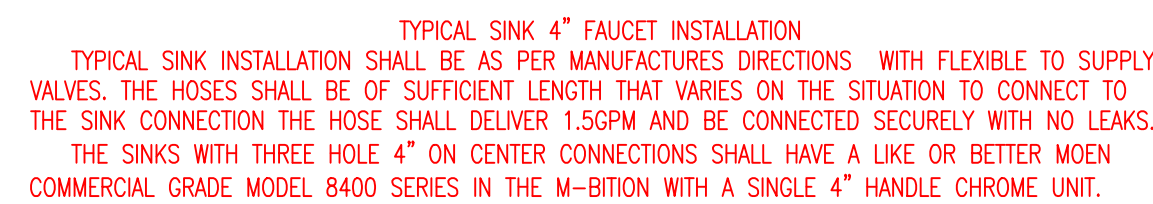
The contractor shall install Thermostatic valves at showers or replace shower controls in building 2 depending on access to the supply piping by drawings.

Any utility sink that the piping is inaccessible the contractor shall install check valves before the control valves of the faucet.

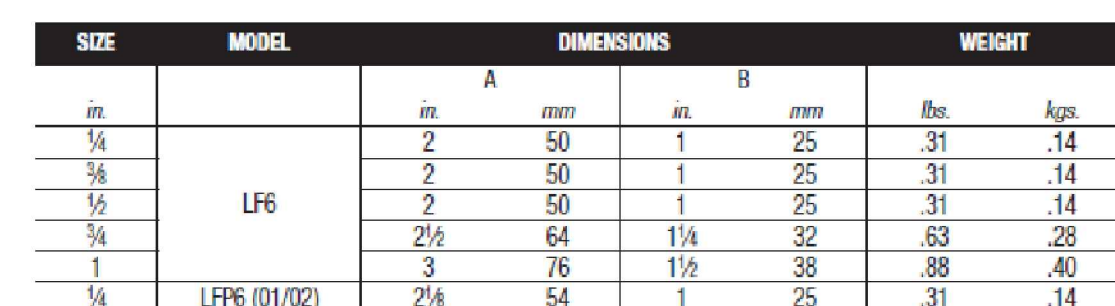
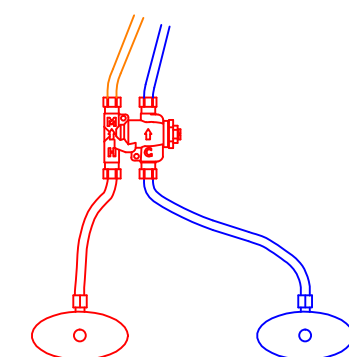
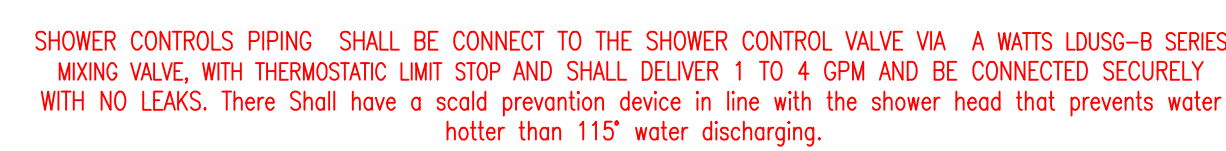
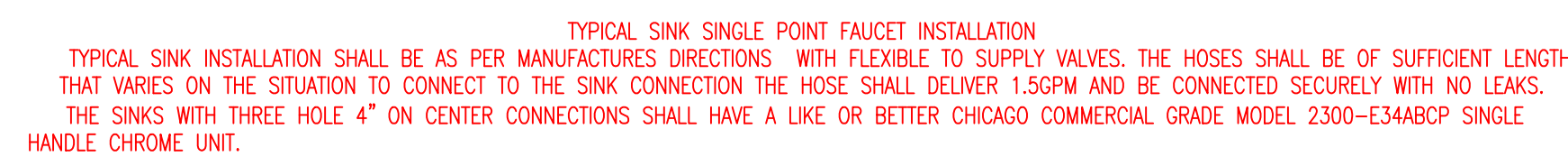
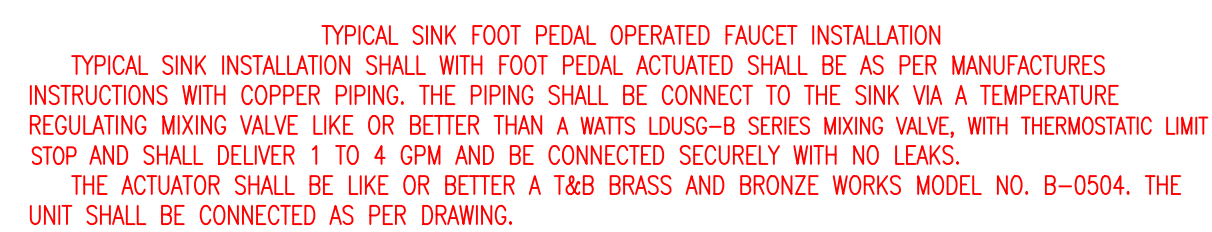
The contractor shall install piping and equipment to complete the hot water supply system in Building 14E. The contractor shall add a circulation pump to the loop as per drawings. All fixtures in Building 14 E shall have a mixing valve like from above installed in building 2.


LIST OF DRAWINGS	
G-000	COVER SHEET
D-100	GENERAL INSTRUCTIONS
P-100	BUILDING 2 GROUND FLOOR AND CRAWL SPACE
P-101	BUILDING 2 SOUTH WEST WING
P-102	BUILDING 2 SOUTH EAST WING
P-103	BUILDING 2 NORTH EAST WING CRAWL SPACE
P-104	BUILDING 2 NORTH WEST WING
P-105	BUILDING 2 FIFTH FLOOR HOT WATER LOOP
P-106	BUILDING 2 FOURTH FLOOR HOT WATER LOOP
P-201	SINK AND SHOWER FIXTURE REPLACEMENT BUILDING 2 GROUND FLOOR
P-202	SINK AND SHOWER FIXTURE REPLACEMENT BUILDING 2 FIRST FLOOR
P-203	SINK AND SHOWER FIXTURE REPLACEMENT BUILDING 2 SECOND FLOOR
P-204	SINK AND SHOWER FIXTURE REPLACEMENT BUILDING 2 THIRD FLOOR
P-205	SINK AND SHOWER FIXTURE REPLACEMENT BUILDING 2 FOURTH FLOOR
P-206	SINK AND SHOWER FIXTURE REPLACEMENT BUILDING 2 FIFTH FLOOR
P-300	BUILDING 14 EAST FIRST FLOOR SINK FAUCETS AND LOOP COMPLETION
P-301	BUILDING 14 EAST SECOND FLOOR SINK FAUCETS

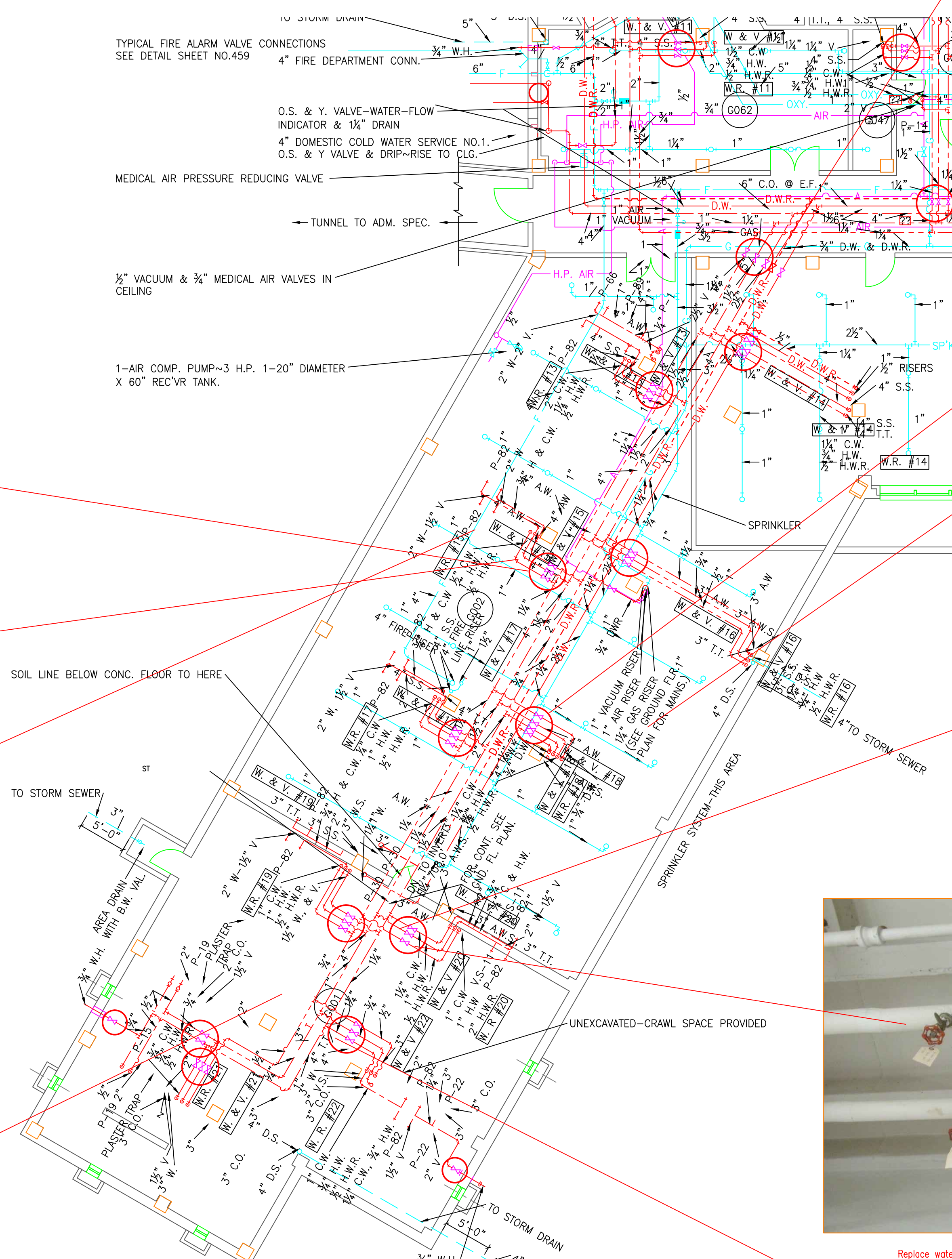
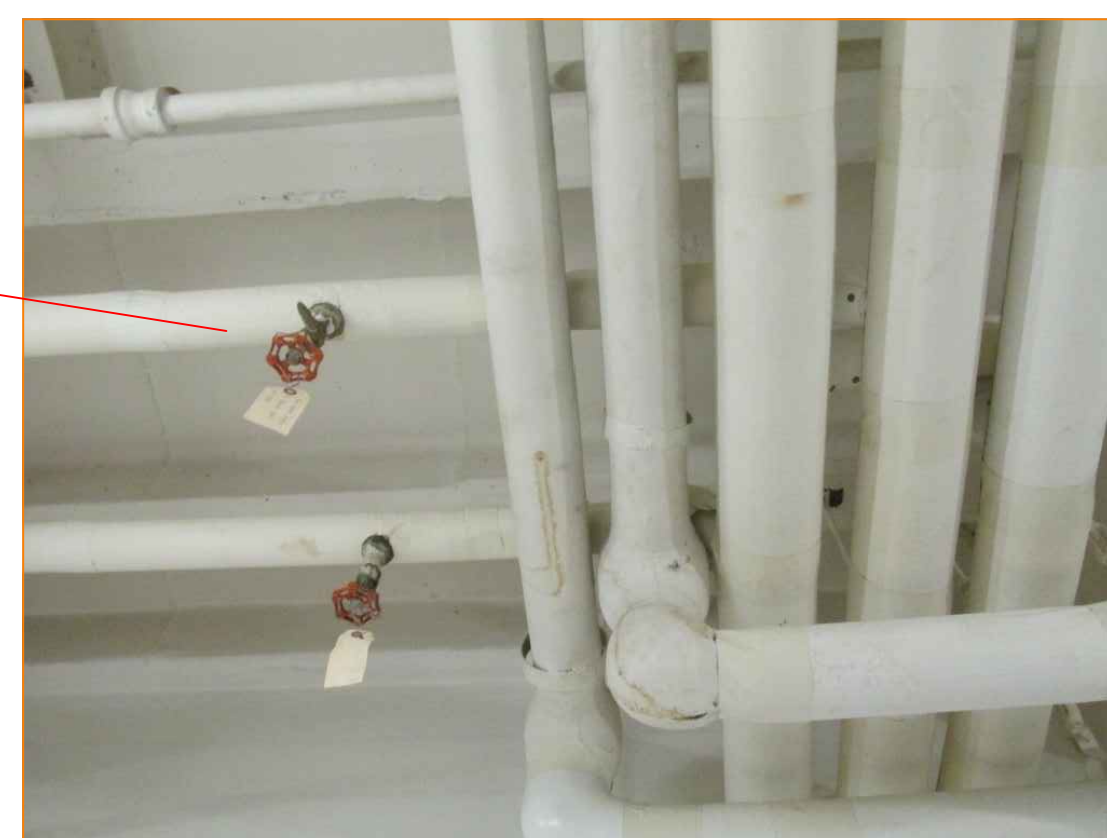
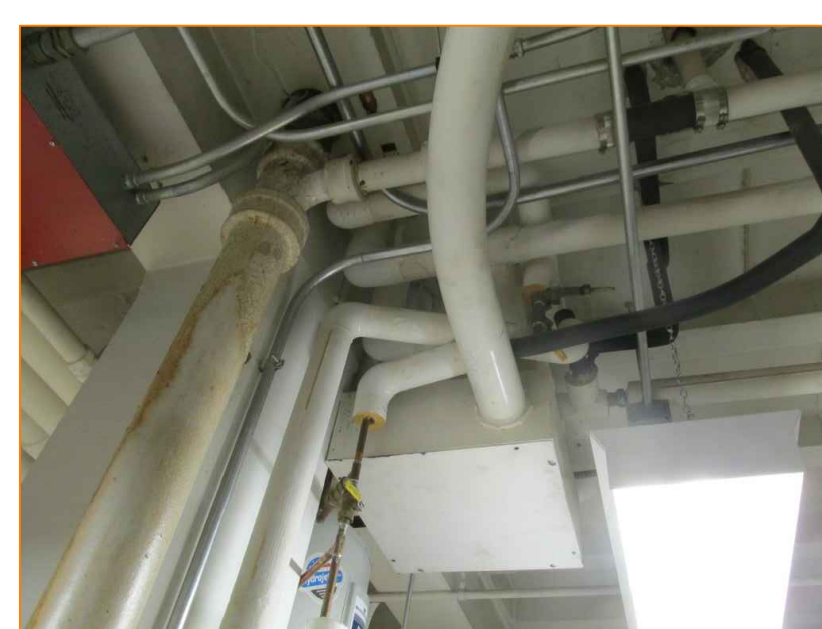
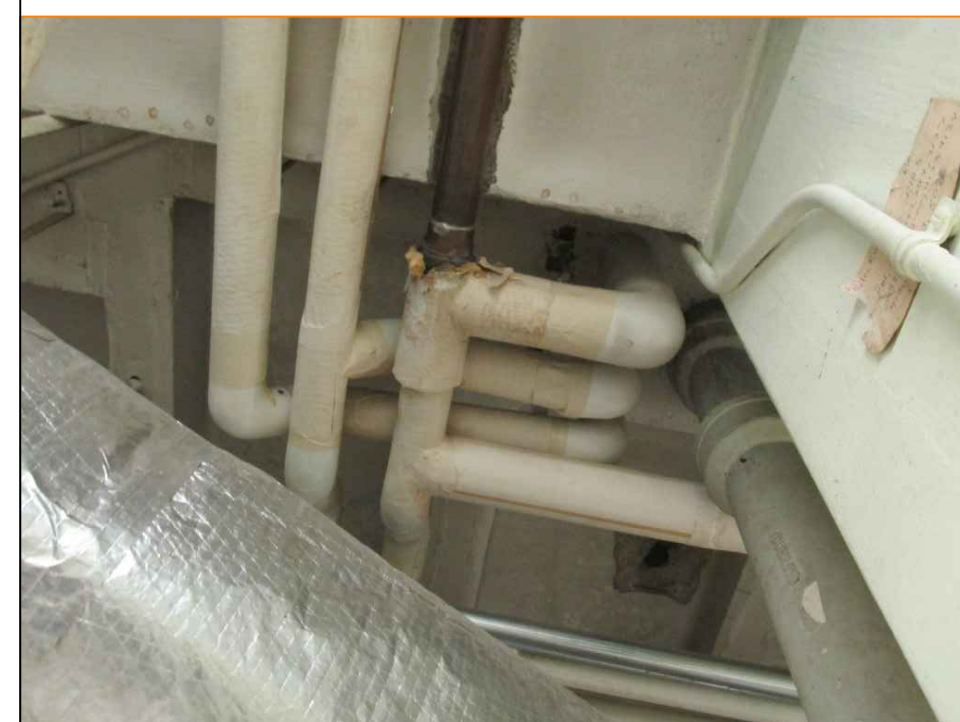
						RECOMMEND APPROVAL		Drawing Title COVER PAGE		Project Title LEGIONELLA MANAGEMENT PROGRAM		Date 25 SEP 2013		 Office of Facilities	 Department of Veterans Affairs	
						REQUESTER _____ Date _____						Project No. 659-14-004				
						CHIEF OF SERVICE _____ Date _____		CHIEF OF STAFF _____ Date _____								
						ASSOC. DIR. PATIENT CARE SVC. _____ Date _____		ASSOC. DIR. for OPERATIONS _____ Date _____		Approved: Safety Manager/M&O Supervisor _____		Building Number VARIOUS				Checked _____
Revision _____		Date _____						APPROVAL BY: _____ Date _____		Approved: Chief of Facilities Management Svr. _____		Location W.G.(Bill) Hefner Medical Center 1501 Brenner Ave. Salisbury NC 28144		DWG. 1 OF 17		
						MEDICAL CENTER DIRECTOR _____										



- 1 GN A GOOSE NECK STYLE
- 1
- 2
- 2 INS MX INSTALL MIXING VALVE ONLY
- 3
- 4
- 4 MX&FT PED INSTALL MIXING VALVE AND PEDAL ASSEMBLY
- 5
- 5 INS MX INSTALL MIXING VALVE ONLY
- 6
- S INSTALL MIXING VALVE
- R REMOVE THE SINK AND FIXTURES PATCH AND PAINT WALL

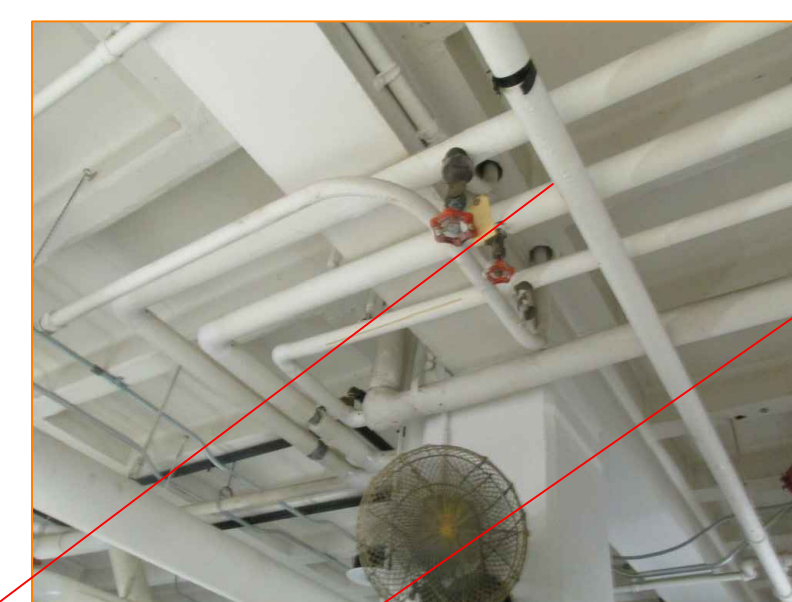
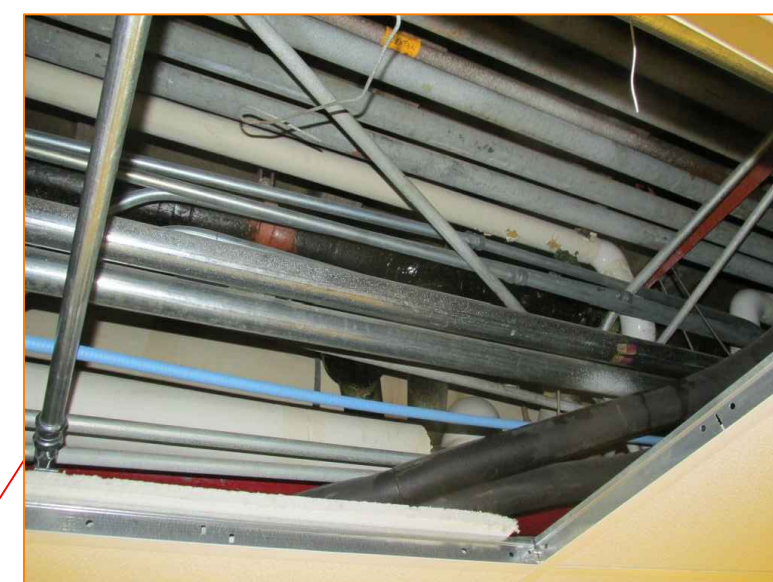


RECOMMEND APPROVAL				Drawing Title		Project Title		Date		
REQUESTER	Date			LEGEND, GENERAL INSTRUCTIONS		LEGIONELLA MANAGEMENT PROGRAM		21 OCT 2014		
CHIEF OF SERVICE	Date	CHIEF OF STAFF	Date					Project No. 659-14-004		
ASSOC. DIR. PATIENT CARE SVC.	Date	ASSOC. DIR. FOR OPERATIONS	Date	Approved: Safety Manager/M&O Supervisor		Building Number 2	Checked	Drawn NEJ	DRAWING NO. D-100	
APPROVAL BY:	Date			Approved: Chief of Facilities Management Svr.		Location	W.G.(Bill) Hefner Medical Center 1601 Brenner Ave. Salisbury NC 28144		DWG. 2 of 17	
MEDICAL CENTER DIRECTOR										



Note

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STATEMENT OF WORK

THE CONTRACTOR SHALL REMOVE ALL VALVES AS SHOWN BY DRAWING AND REPLACE WITH NEW BALL VALVES. AFTER PRESSURE, FLOW, AND LEAK TESTING COMPLETED AND PASS. THE CONTRACTOR SHALL INSURE THE PIPE IS CLEAN OF ALL GREASE AND ASSEMBLY CHEMICAL THAT COULD BE DETRIMENTAL TO THE PIPE.

ALL PIPING SHALL BE INSULATED AS THEY RELATE TO THE SYSTEM TO WHICH THE PIPING IS CONNECTED ON THE DOMESTIC WATER SYSTEM. THE PIPING SHALL BE INSULATED FROM WHERE COLD WATER ENTERS THE BUILDING, OR SPACE TO WHERE IT IS LEAVING THE SPACE. ALL COMPONENTS SHALL BE INSULATED INCLUDING VALVE BONNETS. THE ONLY PORTION OF THE SYSTEM THAT IS ALLOWED TO BE UN-INSULATED ARE STRAINER ACCESS, HOSE BIBS, VALVE STEMS, HANDLES AND DRAIN OPENINGS. UNIONS, VALVES, CHECK VALVES, AND STRAINERS SHALL HAVE INSULATED BLANKETS THAT ARE SHAPED AND FORMED TO THE COMPONENTS AND EASILY REMOVED AND REINSTALLED FOR MAINTENANCE. ANY COMPONENT DEEMED BY THE MANUFACTURE THAT SHOULD NOT TO BE INSULATED SHALL NOT BE INSULATED. IF THIS ITEM IS ON THE HOT WATER PIPING AND HAS THE POTENTIAL TO BE OVER 125 DEGREES FAHRENHEIT IT SHALL BE WIRER FRAME GUARDED TO PREVENT ACCIDENTAL BURN. ALL PIPING SHALL BE LABELED AS TO WHAT SYSTEM AND ALL VALVES SHALL BE TAGGED ACCORDING TO THE SPECIFICATIONS.

ALL PIPING SHALL BE RAN IN A NEAT ORGANIZED MANNER THE PIPE, FITTINGS, FIXTURES AND INSULATION SHALL BE NEW MATERIAL EXCEPTED WHERE NOTED. ALL VALVES SHALL BE INSTALLED WITH UNIONS THAT ALLOW FOR DISASSEMBLY FOR REPAIRS. VALVES SHALL BE TAGGED AND LABELED. VALVES SHALL BE RATED FOR TEMPERATURES, PRESSURES AND PHYSICAL CHARACTERISTICS OF THE SYSTEM THAT IT SERVES. THE UNION SHALL BE ON THE SIDE OF THE VALVE THAT THE VALVE FEEDS.

[illegible]

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REPLACE WATER VALVES HOT, HOT RETURN, AND COLD WITH BALL VALVES.



REPLACE WATER VALVES HOT, HOT RETURN, AND COLD WITH BALL VALVES.
INSULATE ALL PIPING RELATED TO THE HOT AND COLD DOMESTIC WATER SYSTEM



REPLACE WATER VALVES HOT, HOT RETURN, AND COLD WITH BALL VALVES.



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INSULATE ALL PIPING RELATED TO THE HOT AND COLD DOMESTIC WATER SYSTEM

Note

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						RECOMMEND APPROVAL		Drawing Title BUILDING 2 NORTH EAST WING CRAWL SPACE		Project Title LEGIONELLA MANAGEMENT PROGRAM		Date 25 SEP 2014				Department of Veterans Affairs					
						REQUESTER Date		CHIEF OF SERVICE Date		CHIEF OF STAFF Date		Project No. 659-14-004									
						ASSOC. DIR. PATIENT CARE SVC. Date		ASSOC. DIR. for OPERATIONS Date		Approved: Safety Manager/M&O Supervisor		Building Number 2						Checked NEJ		DRAWING NO. P-103	
						APPROVAL BY: MEDICAL CENTER DIRECTOR		Date		Approved:Chief of Facilities Management Svr.		Location W.G.(Bill) Hefner Medical Center 1601 Brenner Ave. Salisbury NC 28144						DWG. 6 OF 17			

THE CONTRACTOR SHALL REMOVE ALL VALVES AS SHOWN BY DRAWING AND REPLACE WITH NEW BALL VALVES. AFTER PRESSURE, FLOW, AND LEAK TESTING COMPLETED AND PASS. THE CONTRACTOR SHALL INSURE THE PIPE IS CLEAN OF ALL GREASE AND ASSEMBLY CHEMICAL THAT COULD BE DETRIMENTAL TO THE PIPE.

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VALVES TO BE REPLACED



VALVES TO BE REPLACED



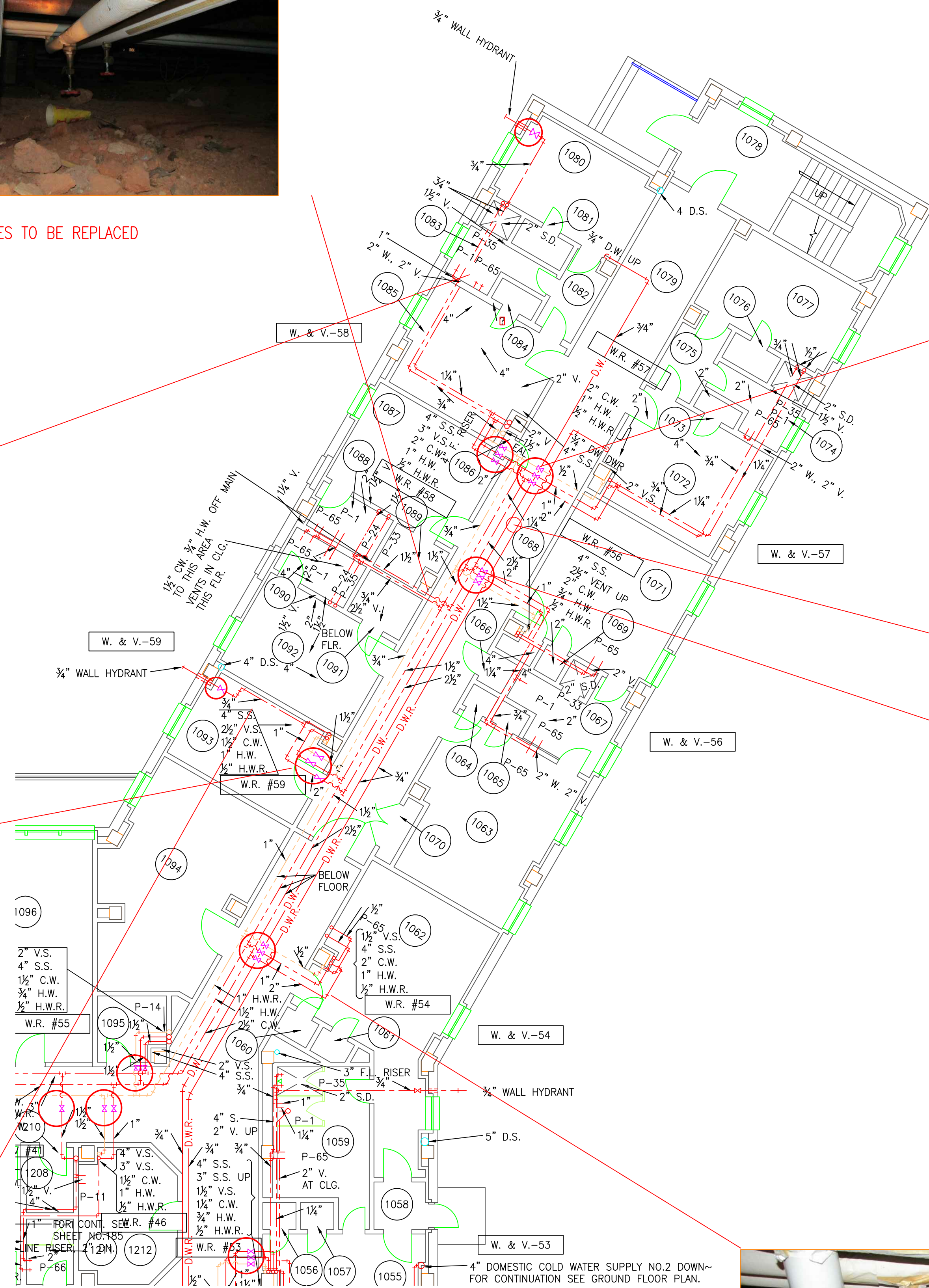
VALVES THAT SERVES THIS BRANCH TO BE REPLACED



VALVES TO BE REPLACED THAT SERVES THIS
BRANCH AND INSULATE ANY EXPOSED PIPE.



INSULATE ANY EXPOSED PIPE THAT RELATES TO THE DOMESTIC WATER SYSTEM.



VALVES TO BE REPLACED



VALVES TO BE REPLACED VALVE BODIES ARE TO BE INSULATED WITH REMOVABLE INSULATED COVERS AROUND THE BONNETS

THIS DRAWING IS NOT TO SCALE AND IN FOR REFERENCE ONLY THE CONTRACTOR SHALL PHYSICALLY TRACE THE SYSTEM TO LOCATE VALVES AND JUNCTION POINTS. THE CONTRACTOR SHALL SECURE THE FLOW OF WATER TO THE WINGS AND EVALUATE THE SUPPLIED PORTION OF THE BUILDING TO INSURE THAT OTHER UNINTENDED FIXTURES MAY BE CONNECTED AND IDENTIFIED BEFORE CUTTING OUT THE SUPPLY LINE. THIS DRAWING MAY NOT SHOW ALL THE PIPING AND BRANCHES OF THE SYSTEM THAT WILL NEED TO BE REMOVED THE CONTRACTOR SHALL BE PREPARED TO REMOVE THIS PIPING AS PART OF THIS CONTRACT.

[illegible]


TYPICAL MIXING VALVE
DISCONNECT AND REMOVE VALVE DISCONTINUE COLD WATER FEED BACK TO
MAIN FEED PIPE. REMOVE TEE FROM MAIN FEED PIPING AND INSTALL
COUPLING/ELBOW AS NEEDED.
DISCONNECT HOT WATER SUPPLY TO VALVE AND WARM WATER SUPPLY TO
FIXTURES AND INSTALL ¼ TURN BALL VALVE AND CONNECT THE TWO PIPES
SO THAT HOT WATER IS SUPPLIED TO THE FIXTURES.

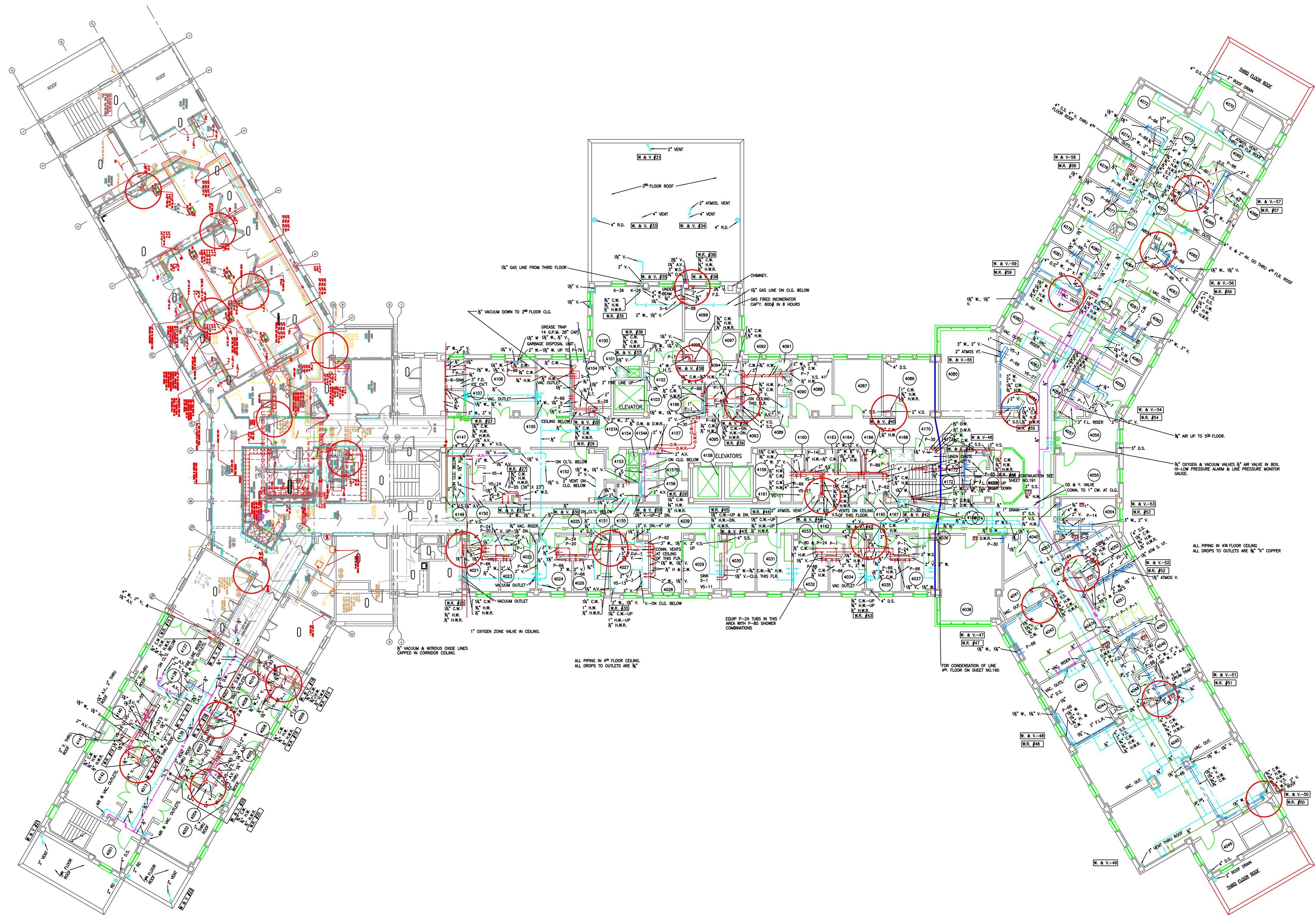
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MAIN FEED PIPE. REMOVE TEE FROM MAIN FEED PIPING AND INSTALL
COUPLING/ELBOW AS NEEDED.
DISCONNECT HOT WATER SUPPLY TO VALVE AND WARM WATER SUPPLY TO
FIXTURES AND INSTALL ¼ TURN BALL VALVE AND CONNECT THE TWO PIPES
SO THAT HOT WATER IS SUPPLIED TO THE FIXTURES.

TYPICAL MIXING VALVE
DISCONNECT AND REMOVE VALVE DISCONTINUE COLD WATER FEED BACK TO
MAIN FEED PIPE. REMOVE TEE FROM MAIN FEED PIPING AND INSTALL
COUPLING/ELBOW AS NEEDED.
DISCONNECT HOT WATER SUPPLY TO VALVE AND WARM WATER SUPPLY TO
FIXTURES AND INSTALL ¼ TURN BALL VALVE AND CONNECT THE TWO PIPES
SO THAT HOT WATER IS SUPPLIED TO THE FIXTURES.

Note

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MAY NOT SHOW ALL THE PIPING AND BRANCHES OF THE SYSTEM THAT WILL NEED TO BE
REMOVED THE CONTRACTOR SHALL BE PREPARED TO REMOVE THIS PIPING AS PART OF
THIS CONTRACT.

		RECOMMEND APPROVAL				Drawing Title BUILDING 2 FIFTH FLOOR HOT WATER LOOP		Project Title LEGIONELLA MANAGEMENT PROGRAM		Date 25 SEP 2014		
		REQUESTER	Date	CHIEF OF SERVICE	Date	CHIEF OF STAFF	Date	Project No. 659-14-004		DRAWING NO. P-106		
		ASSOC. DIR. PATIENT CARE SVC.	Date	ASSOC. DIR. for OPERATIONS	Date	Approved: Safety Manager/M&O Supervisor		Building Number 2	Checked NEJ	DWG. 8 of 17		
		APPROVAL BY:				Date	Approved: Chief of Facilities Management Svr.		Location W.G.(Bili) Hefner Medical Center 1601 Brenner Ave. Salisbury NC 28144			
Revision		MEDICAL CENTER DIRECTOR										
Date												

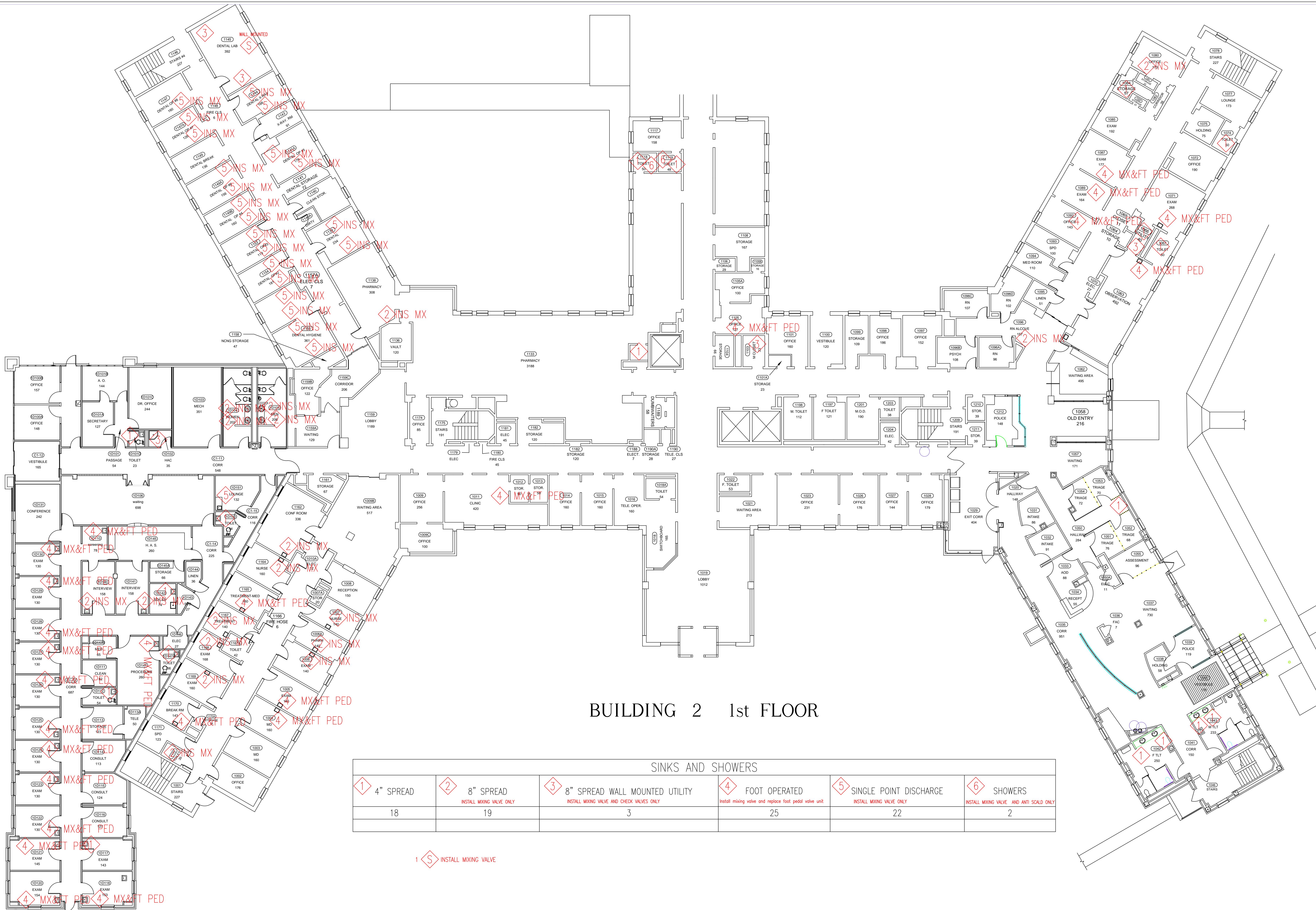


TYPICAL MIXING VALVE
DISCONNECT AND REMOVE VALVE DISCONTINUE COLD WATER FEED BACK TO
MAIN FEED PIPE REMOVE TEE FROM MAIN FEED PIPING AND INSTALL
COUPLING.
DISCONNECT HOT WATER SUPPLY TO VALVE AND WARM WATER SUPPLY TO
FIXTURES AND INSTALL 1/4 TURN BALL VALVE AND CONNECT THE TWO PIPES
SO THAT HOT WATER IS SUPPLIED TO THE FIXTURES.

Note

THIS DRAWING IS NOT TO SCALE AND IN FOR REFERENCE ONLY THE CONTRACTOR SHALL
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MAY NOT SHOW ALL THE PIPING AND BRANCHES OF THE SYSTEM THAT WILL NEED TO BE
REMOVED THE CONTRACTOR SHALL BE PREPARED TO REMOVE THIS PIPING AS PART OF
THIS CONTRACT.

				RECOMMEND APPROVAL		Drawing Title		Project Title		Date			
				REQUESTER		BUILDING 2 FOURTH FLOOR HOT WATER LOOP		LEGIONELLA MANAGEMENT PROGRAM		23 SEP 2014			
				CHIEF OF SERVICE		CHIEF OF STAFF				Project No. 659-14-004			
				ASSOC. DIR. PATIENT CARE SVC.		ASSOC. DIR. for OPERATIONS		Approved: Safety Manager/M&O Supervisor		Building Number 2			
Revision		Date		APPROVAL BY:		MEDICAL CENTER DIRECTOR		Approved:Chief of Facilities Management Svr.		Location W.G.(BII) Hefner Medical Center 1601 Brenner Ave. Salisbury NC 28144		DRAWING NO. P-108	
										Checked		Drawn NEJ	
										DWG. 9 of 17			



Revision	Date

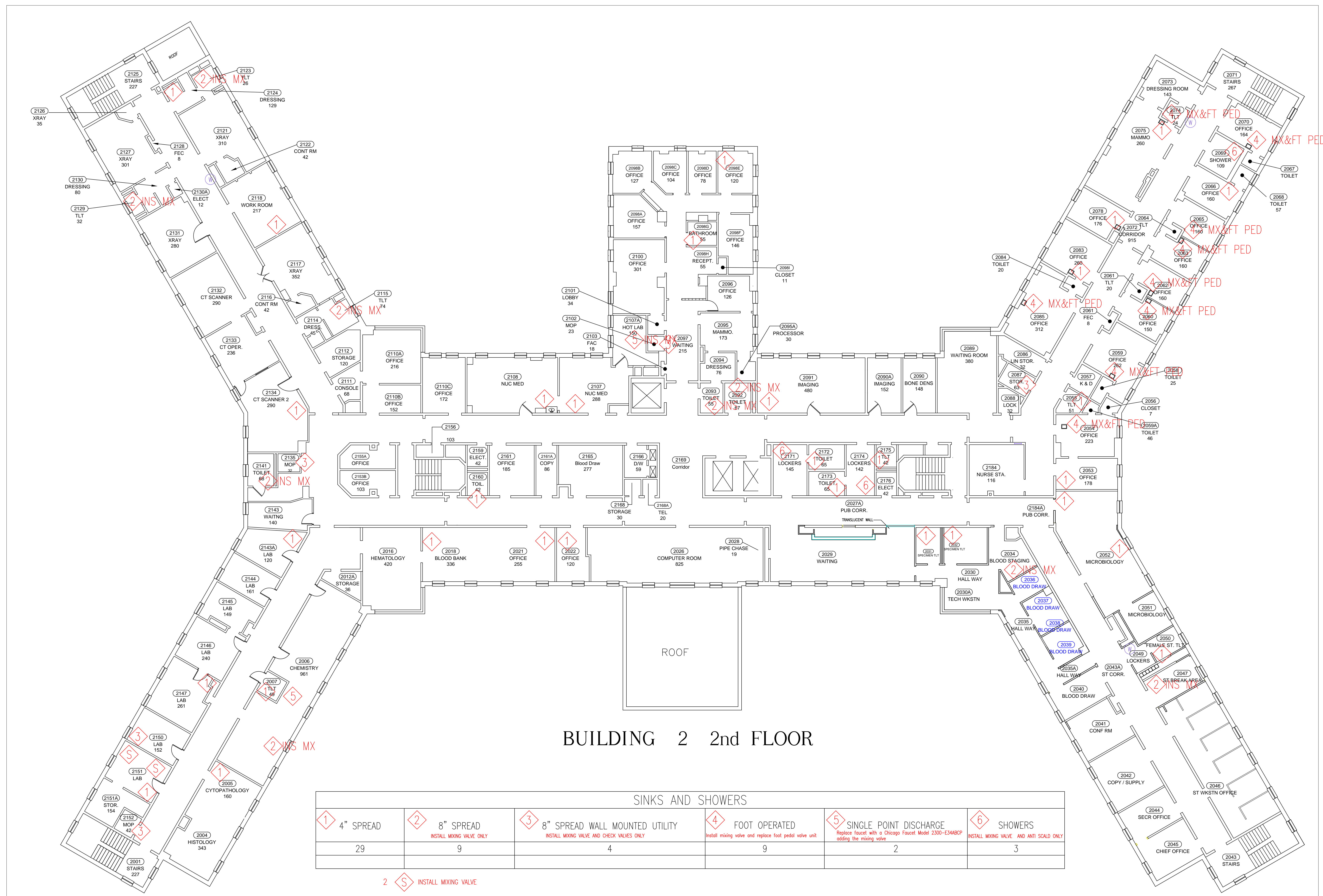
RECOMMEND APPROVAL			
REQUESTER	Date	CHIEF OF STAFF	Date
CHIEF OF SERVICE	Date	ASSOC. DIR. for OPERATIONS	Date
ASSOC. DIR. PATIENT CARE SVC.	Date	APPROVAL BY:	Date
MEDICAL CENTER DIRECTOR			

Drawing Title	BUILDING 2 FIFTH FLOOR SINK FAUCETS		
Approved: Safety Manager/M&O Supervisor	Approved: Chief of Facilities Management Svr.		

Project Title	LEGIONELLA MANAGEMENT PROGRAM		
Building Number	2	Checked	Drawn
Location	W.G.(BII) Hefner Medical Center 1601 Brenner Ave. Salsbury NC 28144		


Date	25 SEP 2014
Project No.	659-14-004
DRAWING NO.	P-100
DWG. 11 of 17	

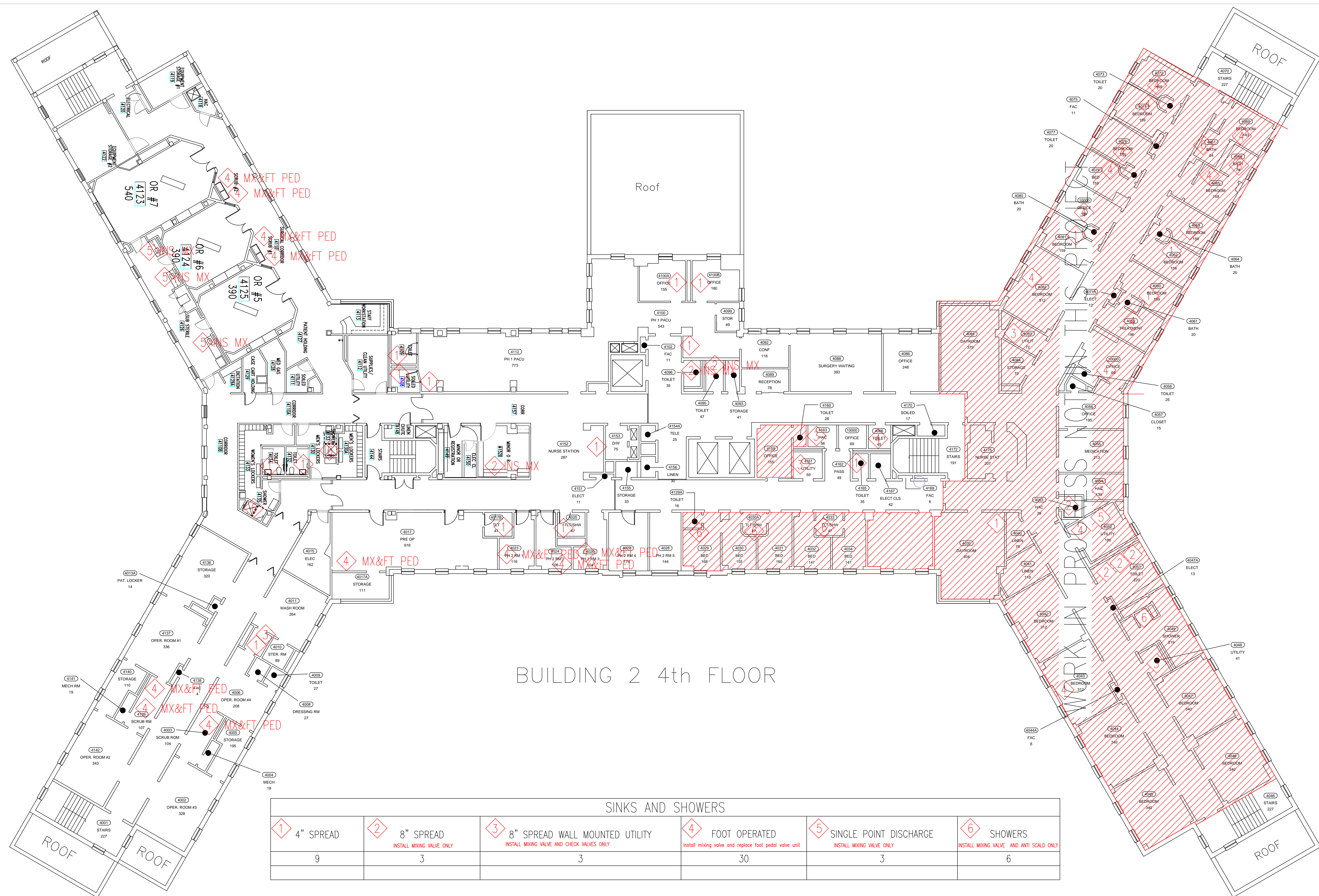




SINKS AND SHOWERS					
1 4" SPREAD	2 8" SPREAD INSTALL MIXING VALVE ONLY	3 8" SPREAD WALL MOUNTED UTILITY INSTALL MIXING VALVE AND CHECK VALVES ONLY	4 FOOT OPERATED Install mixing valve and replace foot pedal valve unit	5 SINGLE POINT DISCHARGE Replace faucet with a Chicago Faucet Model 2300-E34ABCP adding the mixing valve	6 SHOWERS INSTALL MIXING VALVE AND ANTI SCALD ON
29	9	4	9	2	3

2 INSTALL MIXING VALVE

		RECOMMEND APPROVAL				Drawing Title BUILDING 2 SECOND FLOOR SINK FAUCETS		Project Title LEGIONELLA MANAGEMENT PROGRAM			Date 25 SEP 2014			Department of Veterans Affairs	
		REQUESTER		Date	CHIEF OF STAFF		Date	Project No. 659-14-004							
		CHIEF OF SERVICE		Date	ASSOC. DIR. for OPERATIONS		Date	Building Number 2			Checked	Drawn NEJ			
		ASSOC. DIR. PATIENT CARE SVC.		Date	APPROVAL BY:		Date	Approved: Safety Manager/M&O Supervisor			Location W.G.(Bill) Hefner Medical Center 1801 Brenner Ave. Salisbury NC 28144				
		MEDICAL CENTER DIRECTOR						Approved:Chief of Facilities Management Svr.			DRAWING NO. P-100				
Revision		Date												DWG. 12 of 17	



SINKS AND SHOWERS					
1 4" SPREAD	2 8" SPREAD <small>INSTALL MIXING VALVE ONLY</small>	3 8" SPREAD WALL MOUNTED UTILITY <small>INSTALL MIXING VALVE AND CHECK VALVES ONLY</small>	4 FOOT OPERATED <small>Install mixing valve and replace foot pedal valve unit</small>	5 SINGLE POINT DISCHARGE <small>INSTALL MIXING VALVE ONLY</small>	6 SHOWERS <small>INSTALL MIXING VALVE AND ANTI SCALD ONLY</small>
9	3	3	30	3	6

Revision	Date

RECOMMEND				APPROVAL	
REQUESTER		Date			
CHIEF OF SERVICE		Date	CHIEF OF STAFF		Date
ASSOC. DIR. PATIENT CARE SVC.		Date	ASSOC. DIR. for OPERATIONS		Date
APPROVAL BY: MEDICAL CENTER DIRECTOR					Date

Drawing Title	BUILDING 2 FOURTH FLOOR SINK FAUCETS
Approved: Safety Manager/M&O Supervisor	
Approved: Chief of Facilities Management Svr.	

Project Title LEGIONELLA MANAGEMENT PROGRAM			
Building Number 2		Checked	Drawn NEJ
Location		W.G.(Bill) Hefner Medical Center 1601 Brenner Ave. Salisbury NC 28144	

Date	25 SEP 2014
Project No.	659-14-004
DRAWING NO.	P-100
DWG. 14 OF 17	





7  AD Mix ADD MIXING VALVE TO CURRENT FIXTURES

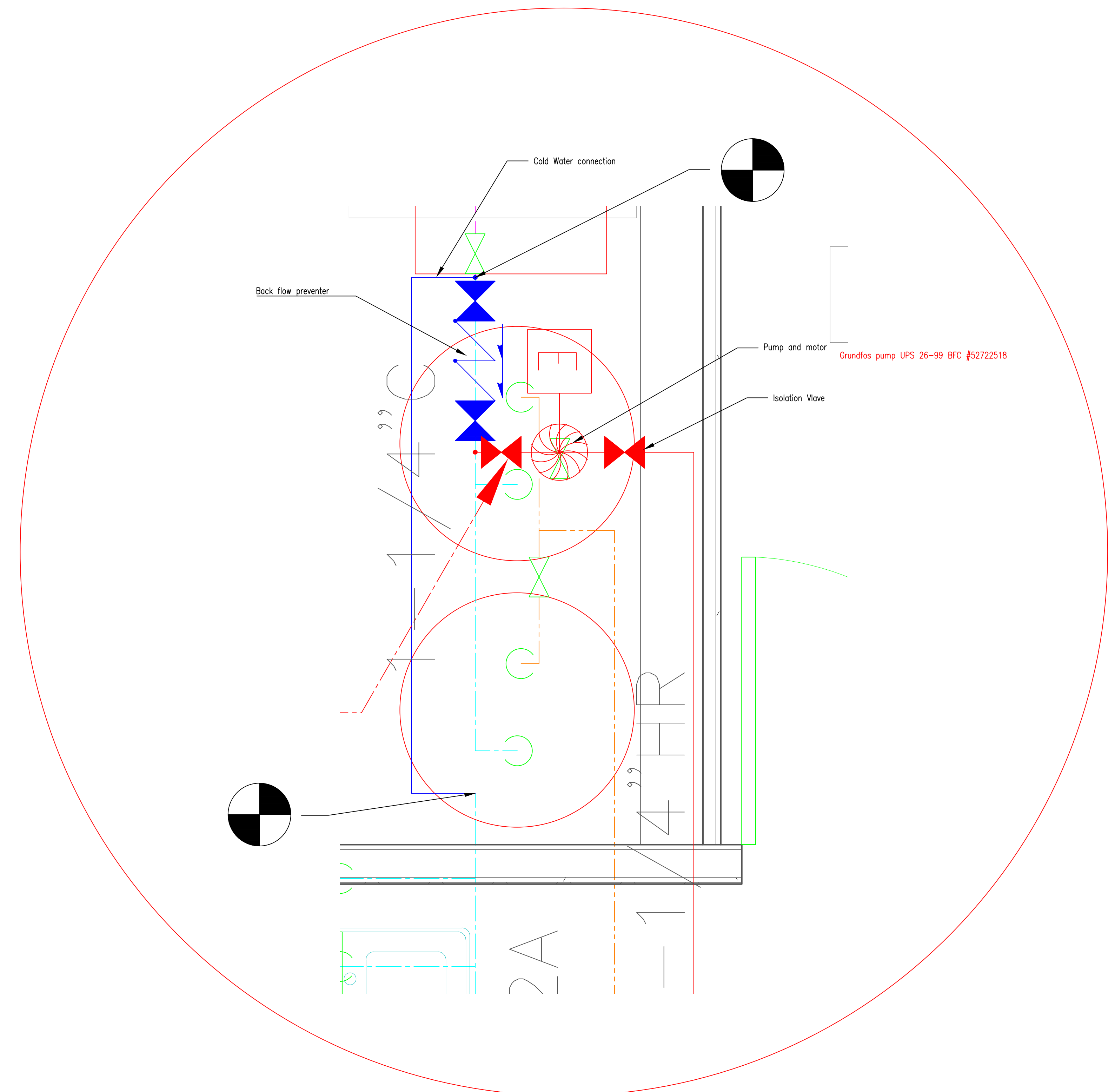
The contractor is to install piping per drawing to complete loop and pump back flow preventer per drawing with motor controller and disconnect. electrical shall be run from panel with manufacture of the pumps recombination of breaker. The pump shall be mounted securely so that it is supported in an accessible space


The pump shall deliver 33 GPM at 26 ft of head with .16 HP electric motor rated at continuous duty. on 115 VAC single phase 60 HZ.

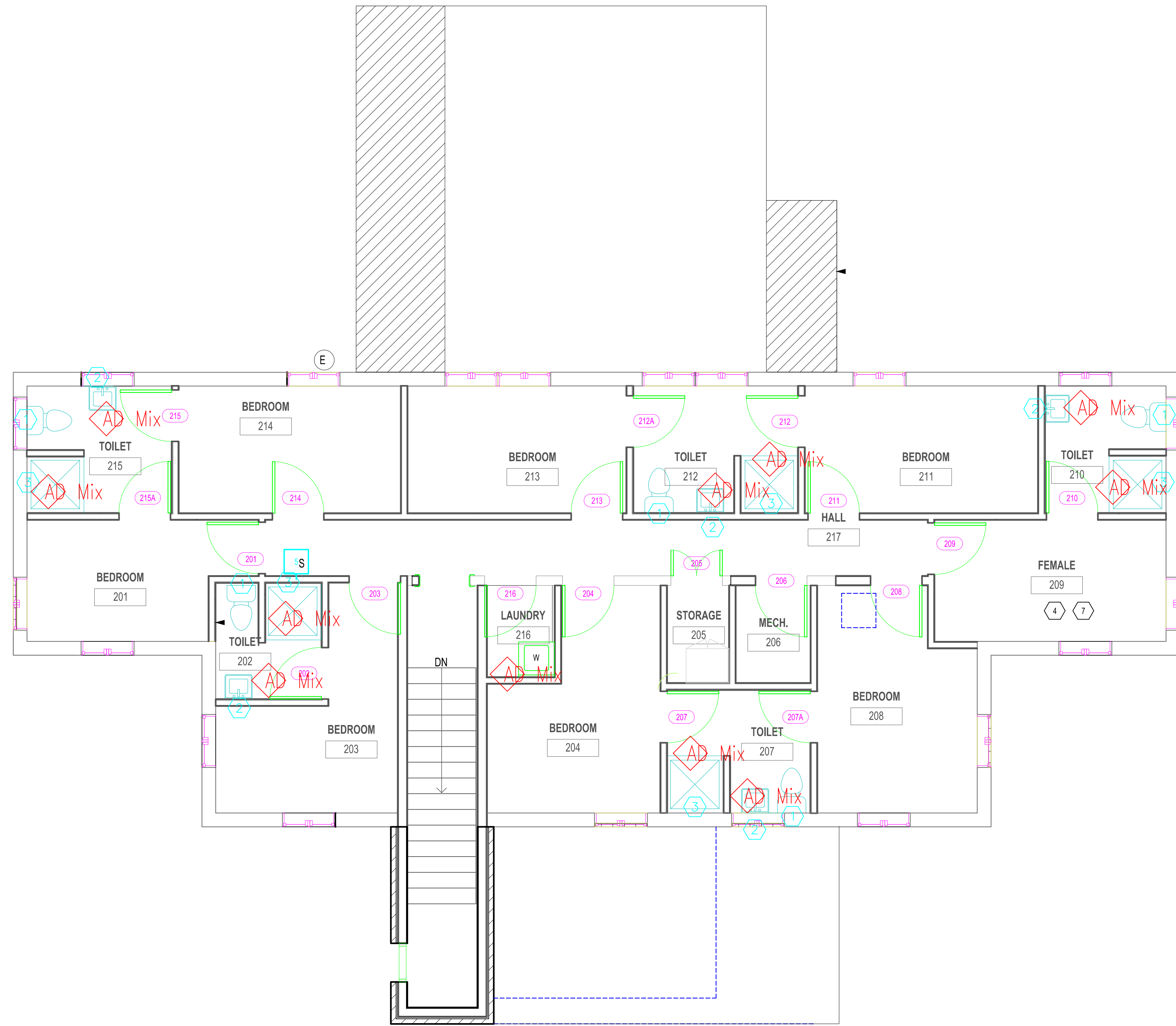
All piping and additional plumbing components shall be insulated as stated.

The installation will require some wall demolition. Contractor shall take all precaution to minimize the demolition. Contractor shall repair and bring the area back to like found condition in the living space.

This building can not lose water over night. The water must be on and operating as close to normal as possible every day that work is being conducted. until the system is operating properly



		RECOMMEND APPROVAL				Drawing Title		Project Title		Date			Department of Veterans Affairs	
		REQUESTER		Date			BUILDING 14 EAST FIRST FLOOR SINK FAUCETS AND LOOP COMPLETION		LEGIONELLA MANAGEMENT PROGRAM		25 SEP 2014			
		CHIEF OF SERVICE		Date	CHIEF OF STAFF		Date			Project No. 659-14-004				
		ASSOC. DIR. PATIENT CARE SVC.		Date	ASSOC. DIR. for OPERATIONS		Date	Approved: Safety Manager/M&O Supervisor		Building Number 14 EAST				Checked
APPROVAL BY:						Date	Approved:Chief of Facilities Management Svr.		Location		W.G.(Bill) Hefner Medical Center 1601 Brenner Ave. Salisbury NC 28144		DRAWING NO. P-200	DWG. 18 OF 19
MEDICAL CENTER DIRECTOR														
Revision						Date								



11  ADD MIXING VALVE TO CURRENT FIXTURES

① SECOND FLOOR - NEW WORK PLAN

Revision	Date

RECOMMEND APPROVAL			
REQUESTER	Date		
CHIEF OF SERVICE	Date	CHIEF OF STAFF	Date
ASSOC. DIR. PATIENT CARE SVC.	Date	ASSOC. DIR. for OPERATIONS	Date
APPROVAL BY:			Date
MEDICAL CENTER DIRECTOR			

Drawing Title	
BUILDING 14 EAST SECOND FLOOR SINK FAUCETS	
Approved: Safety Manager/M&O Supervisor	
Approved: Chief of Facilities Management Svr.	

Project Title		
LEGIONELLA MANAGEMENT PROGRAM		
Building Number	Checked	Drawn
14 EAST	NEJ	
Location		
W.G.(Bill) Hefner Medical Center 1601 Brenner Ave. Salisbury NC 28144		

Date
25 SEP 2014
Project No.
659-14-004
DRAWING NO.
P-201
DWG. 19 of 19

